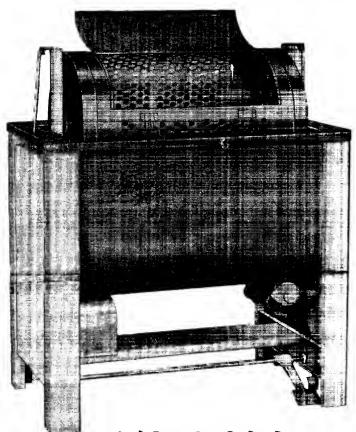
# PRODUCT INFORMATION BULLETIN

PAKO CORPORATION • 6300 OLSON MEMORIAL HIGHWAY • MINNEAPOLIS 40, MINNESOTA

# PAKOLUX M-2 PRINT WASHER

**DATE** 3-10-61

**BULLETIN** 157



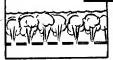
# 7riple ACTION for Thorough Washing



#### MECHANICAL AGITATION

Continuous rotation of the stainless-steel cylinder keeps prints in constant matian. Variation of water pressure does not affect rotory octian of the cylinder.

#### HYDRAULIC AGITATION



Gentle jets of water keep prints from matting against sides of cylinder.

# PN

#### PNEUMATIC AGITATION

Air injected into the wosh water by an aspirator which also serves os a vacuum breoker... eliminates matting together af prints. The sofety factor for fost, thorough print woshing.

# FIBERGLASS TANK STAINLESS STEEL CYLINDER

#### SPECIFICATIONS

(Specify voltage and current when ordering)

Plumbing connections:  $1-\frac{1}{2}$  pipe for water inlet.  $1-\frac{1}{4}$  pipe for drain outlet.

Approved type Vacuum Breaker supplied at extra cost where required by local laws.

WATER CONSUMPTION:....4 gallons per minute.

TANK CAPACITY......36 gallons.

PRINT SIZES ACCOMMODATED:.. Amateur sizes to and including 11"x14", single or double weight.

PRINT LOAD CAPACITY:.....150-8"x10" double weight or equivalent area.

CURRENT CONSUMPTION.....175 watts per hour.

Approved For Release 2002/11/08: CIA-RDP78-05369A000100130010-4

FROM



### THE NEW LINE OF

# PAKONOMY DRYERS

the finest
commercial dryers
in the photographic
industry

**BUILT TO** produce quality glossy or matte prints that develop customer satisfaction and repeat business. The new line of PAKONOMY DRYERS with modern functional design is easy to install and simple to operate.

#### NUMEROUS FEATURES OF THE PAKONOMY DRYERS

POSITIVE DRIVE UNIT...easily started and adjusted from the front of the machine. A variable pulley alters the apron speed while motor speed remains constant, insuring accurate speed at various settings. Speeds from "slow" to "fast" are indicated on calibrated gauge. Settings are made by raising or lowering the speed selector handle.

THERMOSTATIC HEAT CONTROL... by means of a readily accessible dial on air heated models. Model 26W has thermostat setting on water heater control box located on lower shelf.

DESIGN AND APPEARANCE...are on a high level. Installation of apron and drum are handled in a minimum of time. Rigid frame construction gives sturdy support to the Seamless Superdrum. Grey baked enamel finish over-all, with the Pako red trim on the Dust Cover, Belt Cover, and Print Tray, to make the Pakonomy an attractive addition for any processing laboratory.

**LEVELING SCREWS...** on each leg provide a simple means of leveling the Pakonomy Dryers regardless of location. Leveling screws are included with the optional base stand for the Model 13.

**DUST COVER...** protects top section of apron from dust and lint. Constructed of molded Pako plastic to match Belt Guard and Print Tray.

**SEAMLESS DRUMS...**on all models. Model 26W is equipped with stainless steel chrome plated drum for gloss drying of Color and B/W materials.

**ADJUSTABLE APRON GUIDE...** for simple adjustment of apron tracking. Adjusting knob can be set to move apron to left or right as required.

APRON TAKE UP ROLLER...automatically takes up excess apron slack. Located behind the front upper panel.



MODEL 26



MODEL 26W & 26GW



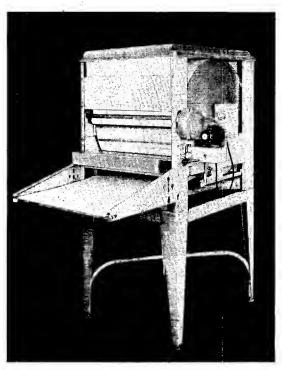
MODEL 13



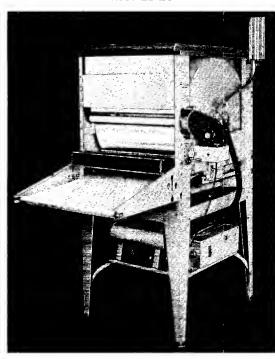
MODEL 26M



MODEL 44



MODEL 26



MODEL 26W (Model 26GW is identical except for heat source)

#### **MODEL 26 PAKONOMY**



(Replaces Pako Economy '48 Dryers)

Far any pracessing labaratary, the Madel 26 is the answer ta dependable high quality praduction af B/W glassy ar matte prints up to 24 inches wide. Apran speeds adjustable from 6 to 20 inches per minute. For glossy drying of color material, order AS-2557 Chrome Plated Stainless Steel Drum.

#### TYPE OF HEAT

2400 Watt Electric Air Heated

#### MATERIAL ACCOMMODATED

B/W Single ar Dauble Weight, Matte or Glassy. Calar Material Glassy, (with AS-2557 Drum).

#### APPROXIMATE PRODUCTION RATE

S. W. - 230 8 x 10's per hour D. W. - 150 8 x 10's per hour Color Material - 135 8 x10's per hour

#### ACCESSORIES:

52-116 Blatting Roller Group far matte drying

52-118 Glassy Strip Drying Accessary

52-80 Matte Strip Drying Accessory

AS-2557 Stainless Steel Chrome Plated Drum for Color Material

52-152 Roll Support for Glossy Strip Drying Accessory

#### **MODEL 26W PAKONOMY**

The ideal dryer for large volume, high quality production. Delivers the "best" in B/W or Color prints with a sparkling high-luster gloss. Water heated, chrome plated, stainless steel drum delivers even heat assuring fast, consistent output at all times. Maximum print width is 24 inches. Apron speeds adjustable from 12 to 40 inches per minute.

#### TYPE OF HEAT

5000 Watt Electric Water Heated

#### MATERIALS ACCOMMODATED

B/W Single or Double Weight, Matte or Glossy. Color Material Glossy.

#### APPROXIMATE PRODUCTION RATE

S. W. Glossy - 450 8 x 10's per hour

D. W. Matte — 300 8 x 10's per hour

Color Material - 325 8 x 10's per haur 18" per minute, per stand

#### **ACCESSORIES**

52-116 Blotting Roller Group for matte drying

Glossy Strip Drying Accessory

Roll Support for Glossy Strip Drying Accessory

52-80 Matte Strip Drying Accessary

#### **MODEL 26GW PAKONOMY**

The 26GW is identical to the Model 26W except for the heat source. A remote gas hot water heater (not supplied by Pako) connects to the circulating pump and drum hose. Water is continuously recirculated between the water jacket on the drum and the water heater. A small capacity gas hat water heater is recammended, having the fallowing specifications: INPUT RATING ......40,000 to 50,000 BTU Per Hour WATER TEMPERATURE ......180°F Minimum RECOVERY RATE ...... Approx. 40 gallons 1 haur with 100°F temperature rise TANK CAPACITY ..... .....Apprax. 8 gallans

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#### Approved For Release 2002/11/08 : CIA-RDP78-05

# ... to fit your needs

#### **MODEL 13 PAKONOMY**

(Replaces Paka Electroglass Dryer)

Small in size, handles print volumes af B/W glassy and matte material, up ta 12 inches wide. The Madel 13 has Seamless Superdrum and squeegee roller release for drying matte prints. Apron speeds adjustable from 6 to 20 inches per minute.

#### TYPE OF HEAT

1400 Wott Electric Air Heoted

#### MATERIALS ACCOMMODATED

B/W Dauble or Single Weight, Motte or Glassy

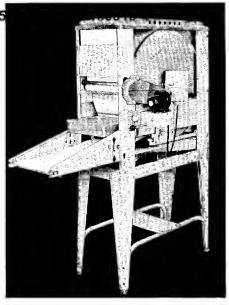
#### APPROXIMATE PRODUCTION RATE

S. W. Glassy - 100 8 x 10's per haur

D. W. Motte - 65 8 x 10's per hour

#### **ACCESSORIES**

52-113 Bose Stond as shown in photographs



MODEL 13 (Illustrated with optional base stand)

#### **MODEL 26M PAKONOMY**

(Replaces Pako Liberty Dryer)

Matte prints and photocopy material up to 24 inches wide ore dried in production volume with the Model 26M. Unpolished chrome ploted steel drum hos new seomless construction. Apron speeds adjustable fram 6 to 20 inches per minute.

#### TYPE OF HEAT

2400 Wott Electric Air Heoted

#### MATERIAL ACCOMMODATED

B/W, Photocopy, Single or Double Weight Matte

#### APPROXIMATE CAPACITY

Photocopy - 300 8 x 10's per hour D.W. Motte -150 8 x 10's per haur

#### **ACCESSORIES FOR 26M**

52-116 Blotting Roller Graup 52-80 Matte Strip Drying Accessory

#### **MODEL 44 PAKONOMY**

(Replaces Pako 44" Photocopy Dryer)

Permits drying of motte prints and photocopy moterial up to o full 42 inches wide. Operating characteristics are some os the Model 26M. Equipped with new type seomless unpalished chrome ploted drum. Apron speeds adjustoble from 6 ta 20 inches per minute.

#### TYPE OF HEAT

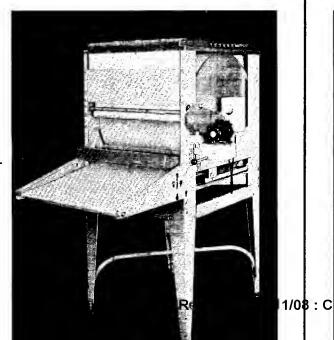
4500 Watt Electric Air Heoted

#### MATERIAL ACCOMMODATED

B/W, Photocopy, Single or Dauble Weight Matte

#### APPROXIMATE PRODUCTION RATE

Phatacapy - 480 8 x 10's per hour D.W. Matte - 290 8 x 10's per haur



MODEL

MODEL 26M

44

## **PAKONOMY ACCESSORIES**

52-152 Roller Support for Glossy Strip Drying Accessory. Permits redrying of glossy strip prints from continuous processor and air dryer.

52-113 Base Stand for Model 13. Provides an excellent support with built-in leveling screws.

AS-2557 Stainless Steel Chrome Plated Drum. Recommended for use on the Model 26 when gloss drying negative-positive color print material.

52-116 Blotting Roller Accessory — For use with Model 26, 26M, and 26GW Pakonomy when drying matte prints.

52-118 Glossy Strip Drying Accessories for use with Model 26, 26W, and 26GW when strip drying glossy prints. Maximum capacity, 5 strips of 3½" paper or equivalent.

52-80 Matte Strip Drying Accessories and Blotting Roller Accessory for use with Model 26, 26M, 26W, and 26GW when strip drying matte prints.

	SPECIFICATIONS					
	Model 13	Model 26	Model 26W	Model 26GW	Model 26M	Model 44
Overall Dimensions	23"W, 57"L, 37"H, with Stand 69"H	36" W, 57" L, 69" H	Same as Model 26	Same as Madel 26	Same as Model 26	54½" W, 57" ∟, 69" H
Shipping Weight (Approx.)	225 lbs. with Stand 258	325 lbs.	435 lbs.	410 lbs.	315 lbs.	420 lbs.
Export Shipping Weight (Approx)	400 lbs. with Stand 455	555 lbs.	730 lbs.	700 lbs,	555 lbs.	715 lbs.
Net Weight	175 lbs. with Stand 200	2 <b>5</b> 5 lbs.	375 lbs.	350 lbs.	255 lbs.	295 lbs.
Line Voltage	115 Valt 60 Cycle A.C. 2 wire	115/230 Volt A.C. 60 Cycle 3 wire single phase, graund neutral	Same as Madel 26	115 Valt 60 Cycle A.C. 2 wire	Same as Madel 26	Same as Madel 26
CURRENT RATINGS Heaters Drive Motor Pump Motor	12.2 amps @ 115 valts 0.6 amps @ 115 valts	10.4 amps @ 230 valts 0.6 amps @ 115 valts	21.7 amps © 230 valts 0.6 amps @ 115 volts 1.6 amps @ 115 volts	0.6 amps @ 115 valts 1.6 amps	Same as Madel 26	19.6 amps @ 230 valts 0.6 amps @ 115 valts
Maximum Power  Consumption	1.5 kilowatts	2,5 kilowatts	5.3 kilawatts	0.3 kilowatts	2.5 kilawatts	4.6 kilawatts

## EASTMAN KODAK STORES, INC.

P. O. Box 4235 6210 North Capitol Street N. W. WASHINGTON 12, D. C.

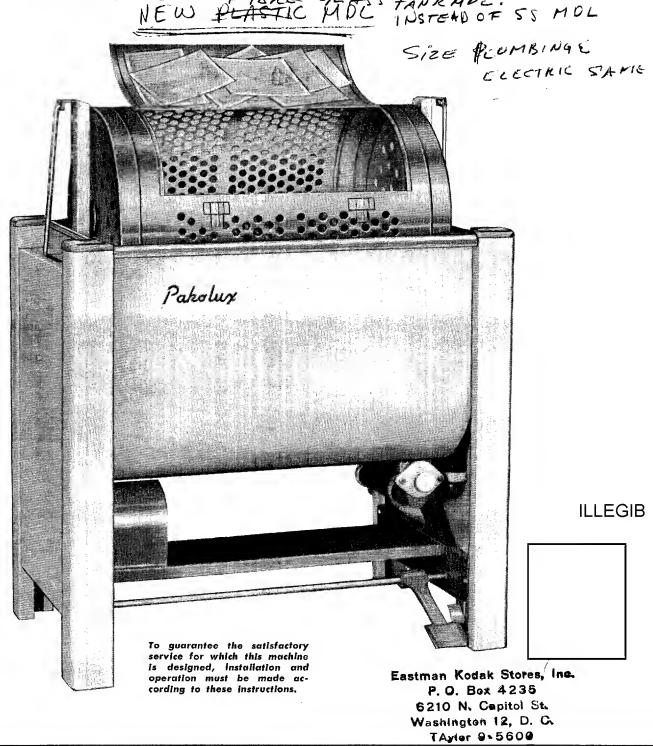
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FORM NO 51-2-3-00R1 PRINTED IN U.S./



# INSTRUCTION MANUAL

PAKOLUX PRINT WASHER



PAKO CORPORATION MINNEAPOLIS 40, MINN.

PRINTED IN U.S.A. 10-59 2M Form 50-000R3

# INSTRUCTIONS FOR INSTALLING THE PAKOLUX PRINT WASHER

The Pakolux Washer is shipped completely assembled and ready to connect to your utility lines

Remove crating.

Remove paper padding on each end of cylinder.

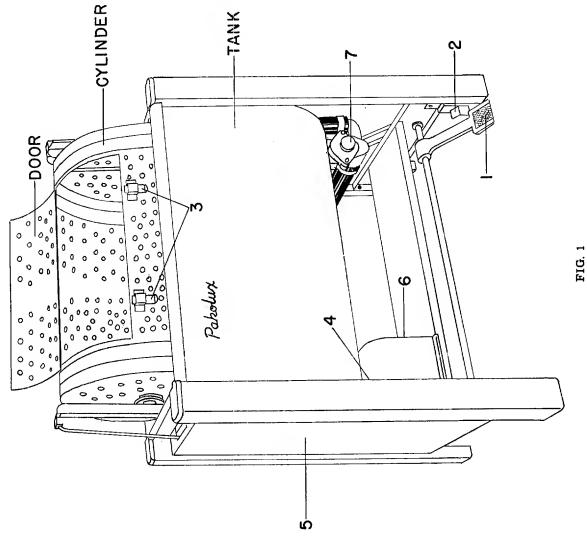
the

Place machine in position.

Make electrical connections (see page 3).

Make plumbing connections (see page 3),

INSTALLATION ONLY. ORDER REPLACEMENT PARTS FROM ILLUSTRATED PARTS LIST. BE SURE TO GIVE SERIAL NUMBER AND NAME OF MACHINE WHEN ORDERING PARTS.



Overall Dimensions: 36" wide x 23" deep x 45" high.

#### **ELECTRICAL CONNECTIONS**

Connect electrical feed wires to motor according to local regulations for a total load of 125 Watts. Have your local electrician make the connections and advise him to install a switch at a convenient location.

The cylinder should revolve toward the operator as he faces the machine. If it revolves backward—change the motor lead wires in order to reverse its direction of rotation. The motor should rotate counter-clockwise when viewed facing the pulley.

#### PLUMBING CONNECTIONS

(See plumbing diagram on Page 4.)

Connect drain valve to  $1\frac{1}{4}$ " Drain Pipe by means of rubber hose provided with machine. Connect water supply line to inlet pipe.

A steady flow of water at approximately 4 gallons per minute is important. Supply lines must be large enough to deliver this amount.

Where excessive pressure and/or varying pressure may deliver excessive or uncertain volume of water, a Pako #9136 Mesurilo should be installed between the Valve and the machine. This device regulates the flow at 4 gallons per minute.

Use corrosion-resistant pipe and valves (Brass or Stainless) to prevent danger of rust and dirt being carried into the Washer.

#### **OPERATION**

Drain Hypo from prints before putting them in washer. This will reduce time required for washing.

Variations in chemical characteristics, temperature and rate of flow of wash water, and in size and weight of prints, make it impractical to give hard and fast rules for wash time required.

Experiments indicate that about 150 8''x10'' double weight prints will wash in 40° water in 45 minutes. (This is equivalent to about 500 to 600 Amateur size prints.)

Recommended rate of flow is 4 to 6 gallons per minute.

Length of wash time should be determined when operation of the machine is started by using the potassium permanganate test for elimination of hypo. Checking performance in this manner will allow you to determine the time required for complete washing of various quantities, sizes, and weight of prints at a given water temperature and rate of flow.

After washing prints, lay them on the open cylinder door to drain before drying. They will then dry faster with less heat.

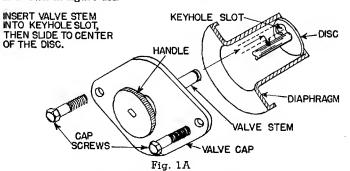
FOOT PEDAL—To raise cylinder out of tank, step down on Foot Pedal, 1 (Fig. 1), located at the right end of machine. Allow Pedal Lock, 2 (Fig. 1), to hold Foot Pedal down. The cylinder can be raised and lowered while the machine is in operation.

TO OPEN CYLINDER—Rotate cylinder by hand until the index pin engages and holds the cylinder in position so the cylinder door may be opened. Push the Door Locks, 3 (Fig. 1), downward and lift door open. In this position, prints may be placed on the cylinder door for draining.

**DRAIN VALVE**—To drain tank, open drain valve, 7 (Fig. 1), located under right end of tank.

The valve is designed so that only Slight pressure on the Diaphragm is necessary to shut off the flow of water. CAUTION: Excessive tightening may damage the valve Diaphragm.

The valve diaphragm is easily changed. Method of fitting parts is shown in figure 1A.



AFRATING DEVICE—The Pakolux is equipped with an aerating device built into the Water Inlet casting. Air drawn in through the three small holes in the casting causes bubbling action for greater washing efficiency.

The Aspirator serves as a vacuum-breaker but does not necessarily meet all local sanitary code requirements. See Fig. 3.

ALGAE—Slippage of the Drive Rollers and smudging of prints may result from Algae deposits carried into the machine with the water. This can be prevented by draining the tank and allowing it to dry out each night. In extreme cases, occasional scrubbing with a bristle brush may be necessary.

#### MAINTENANCE

**END PANELS**—To remove End Panels, 5 (Fig. 1), lift up and pull out.

BELT ADJUSTMENT—To tighten the Motor Belt, loosen the bolts on the Motor Base and slide Motor toward the rear of the machine. To tighten the cylinder Drive Belt, loosen the Pulley Stud, 4 (Fig. 1), and slide downward in adjusting slot. Both belts should be just tight enough to drive without slipping—excessive tautness causes needless wear.

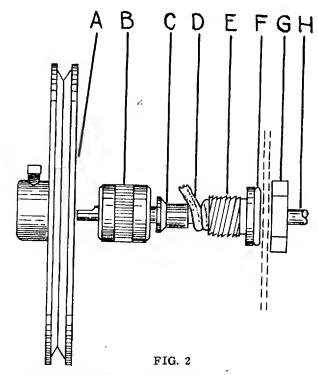
**STUFFING BOX**—(See Figure 2)—Threads on the Stuffing Box Casing are left hand. To tighten cap, revolve counter-clockwise.

To stop leakage through the Stuffing Box, compress the Packing, D, around the Drive Shaft, H, by turning the screw cap, B, counter-clockwise. Do not tighten the Screw Cap so far as to hamper the free operation of the Drive Shaft, H. The oil-impregnated packing, D, inside Stuffing Box may be lightly oiled to provide lubrication. CAUTION: Excess oil may be forced into the tank when Stuffing Box Screw Cap is tightened. Never Pack Stuffing Box with grease.

TO REPLACE THE PACKING—Remove the Drive Pulley, A, unscrew the Stuffing Box Cap, B, and remove the brass Stuffing Box Gland, C. Remove old Packing, D, and Replace in reverse order.

Parts are assembled on the Washer in the following sequence:

- 1. Stuffing Box Casing E.
- 2. Copper Gasket F.
- 3. Tighten Retaining Nut G to Casing E.
- 4. Stuffing Box Packing D.
- 5. Stuffing Box Gland C.
- 6. Stuffing Box Screw Cap B.



OILING—All moving parts—except those inside the tank or cylinder—should be lubricated regularly. S.A.E. 20 oil is suitable.

Oil the pulley Stud, 4 (Fig. 1) once a month.

Oil the motor, 6 (Fig. 1) every month. (One drop in each of 2 oil cups.)

Oil the Pedal Shaft Bearings once a month. Keep the Felt washers on the lower end of the Lift Rods well saturated with oil.

Apply oil sparingly, and wipe off excess lubricant and dirt.

cleaning—The Pakolux Washer is fabricated of Stainless Steel in those parts most subject to corrosive action. However, periodic cleaning is recommended, the frequency depending on the amount of exposure to chemicals, and the nature of the water supply.

Iron rust or other impurities from the water supply will collect in cracks and rough spots, such as welds. Daily cleaning with a damp cloth is recommended to keep these deposits at a minimum, or if necessary, use an alkaline household cleaner or a fibre brush.

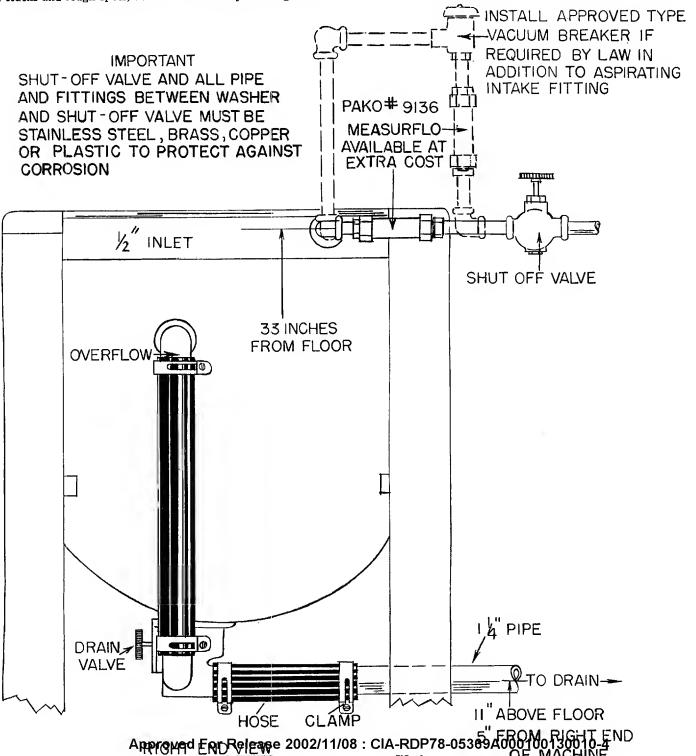
If deposits have become heavy, moisten a cloth with a 10% solution of Sodium Nitrate and sprinkle with whiting, then rub vigorously. Or—use a 2%-5% solution of warm Oxalic acid followed by thorough rinsing.

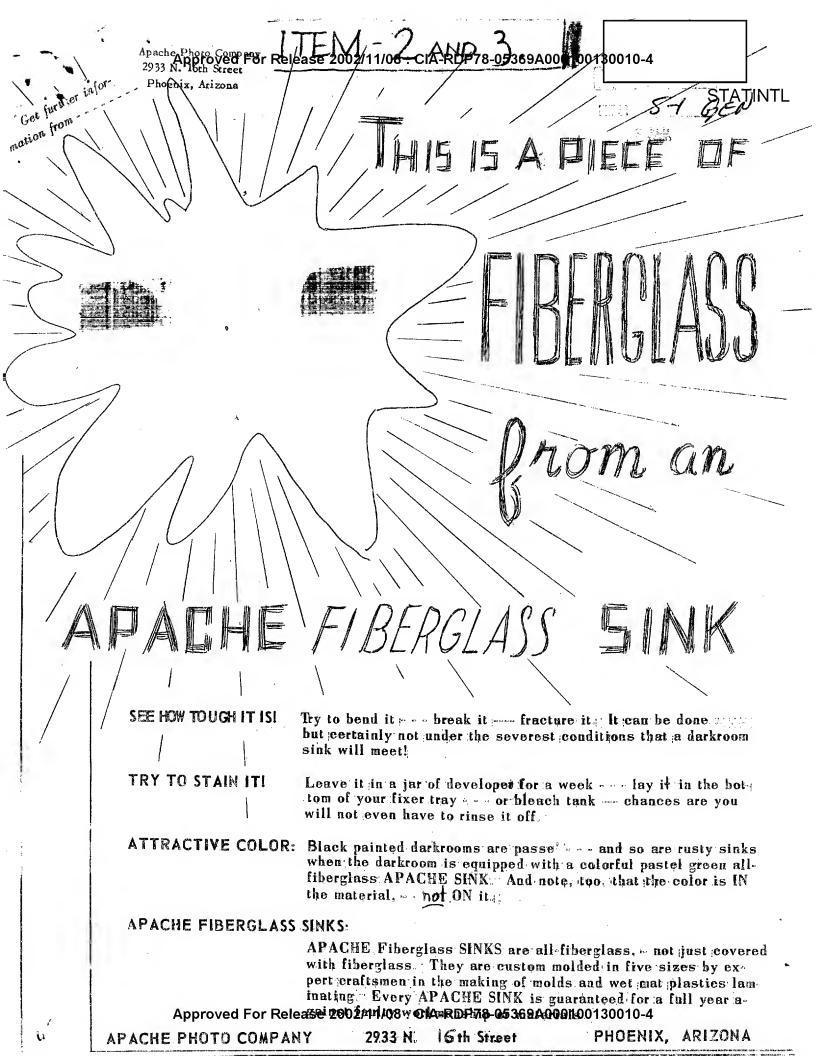
Give special attention to welds and corners, and always rinse thoroughly after cleaning.

CAUTION: Never use abrasives, steel wool, or wire brushes as these will contaminate the surface of the Stainless Steel.

For best results, the Pakolux Washer should be kept in good operating condition. Replace worn parts when necessary with genuine repair parts manufactured only by PAKO CORPORATION, Minneapolis 11, Minnesota.

Fill Out and Return Guarantee Card



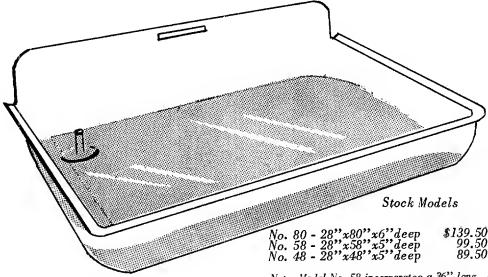




Apache tiberglass sinks

MODEL AH-1

FOR DARKROOMS, LABORATORIES, WASHROOMS



Note; Model No. 58 incorporates a 36" long non-sloping shelf 1" deep.

#### LOW COST

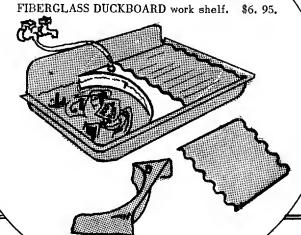
Now, at last - a lifetime quality darkroom sink that anyone can afford. Durable as a speed-boat, more stainless than 'stainless', and pretty as a picture gives you a thumbnail sketch of the wonderful new Apache Fiberglass Darkroom Sink. All that for half the price of metal!

ILLUSTRATED ABOVE ARE A FEW OF THE MANY WAYS THE COLORFUL NEW APACHE FIBERGLASS SINK MAY BE MOUNTED. STANDARD DRAIN .

Style 48 sink pan

#### OP TION AL PRINT WASHER ADAPTER

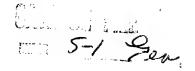
Place in sink, connect to water source, and wash prints up to big 20x24inch sizes. \$14.95.



- ECONOMICAL: Custom molded by experienced craftsmen, Apache Fiberglass Sinks are surprisingly low in cost.
- ATTRACTIVE: Will make any darkroom a more pleasant place to work.
- DURABLE: Fiberglass sinks will last years longer then metal sinks for they will never rust or corrode.
- STAINPROOF: Practically resistant to all stains, - even bleach!
- VERSATILE: Light weight Apache one-piece Fiberglass Sinks are easily installed. They may be mounted on legs, cabinet or counter top.

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#### MORE SIZES OF APACHE FIBERGLASS SINKS III



Since our circulars came off the presses, additional sizes of Apache All-riberglass Sinks have been designed and the moulds have been constructed. Samples of the new sinks have been manufactured, - - - and they are beauties.

Now, in addition to the sinks shown in the circular, you may choose from 3 more sizes of the conventional sink pan with backsplash, namely;

72"x28"x6" deep, with 7" backsplash. . . . \$129.50 60"x28"x6" deep, with 7" backsplash. . . . 119.50 48"x28"x6" deep, with 7" backsplash. . . . 94.50

Also new are tray style sinks made of light solid fiberglass. These sinks are designed to be used as processing trays for graphic arts films, blueprints and photographic murals. One size is now immediately available, others coming in the near future. The drain is in the extreme corner, so that standpipe cannot interfere with handling large size prints.

33"x51"x4½" deep tray-style sink ..... \$89.50

Company will farnish suggested plumbing arrangement if requested.

Apache Photo Company Fiberglass Sink Division

2933 N. 16th St.

CRestwood 746864

Phoenix

Arizona

## Industrial Division

APACHE PHOTO CO.

5-1 GEN

3 FEB

2933 NORTH 16TH STREET PHOENIX, ARIZONA

Gentlemen,

Thank you very kindly for your inquiry about the new all-fiberglass Apache Fiberglass Darkroom Sinks.

The Apache Fiberglass Sink has many advantages never before available in a laboratory sink. For example, it is reasonably priced! Secondly, it has most of the practical qualities of expensive metal sinks, yet is lighter in weight, easier to keep clean (all rounded corners), highly resistant to most chemical stains, design engineered and very attractive in appearance.

Now available in several practical sizes, the expertly molded all-fiberglass sinks are shipped complete with standard drain pipe fitting, polyethylene standpipe, plus a length of plastic stripping to seal the sink sill. You will also receive a set of drawings with any sink purchase showing several different suggestions for sink mountings, including installation in counter tops, cabinets or frame type stands.

Apache Fiberglass Sinks are beautifully finished in high gloss pastel-green resin and all have 7" high backsplash to protect your walls from stains. Altho of various lengths and styles, all sinks are 28" from front sill to backsplash, allowing several styles of sinks to be aligned into the same counter strip.

Current users of the All-Fiberglass Apache Sink are Airesearch Manufacturing Company, Talco Engineering Company, Newell Photo Studios, Arizona Blueprint Company and Germain School of Photography, to name but a dew.

Any standard size sink shown or listed on any of the enclosed flyers will be shipped within ten days after receipt of your order.

We will pay all shipping costs if payment in full accompanies the order. C.O.D. orders must be accompanied with a 25% deposit. Apache Fiberglass Sinks are also sold thru industrial photo dealers throughout the U.S.A.

Looking forward to helping you to have a cleaner, brighter and more attractive darkroom thru installation of an Apache All-Fiberglass Sink, we remain

Yours very truly,

Al M. Hauser

Sales Director

AMH/co